

Argophyllum ferrugineum A.R.Bean & P.I.Forst.

Family:

Argophyllaceae

Bean, A.R. & Forster, P.I. (2018) *Austrobaileya* 10(2): 215-217, Figs. 2A-C, 3, Map 3. Type: "Queensland, North Queensland, Koolmoon Creek, District: Tully Falls weir, 23 November 1995, P.I. Forster PIF18195 & T. Spokes (holo: BRI [2 sheets + spirit]; iso: CNS, K, MEL, NSW)."

Stem

Shrub 1-4 m high. Hairs on new growth rusty or brown; hairs on branchlets more than 10 cm from growing point rusty or brown.

Leaves

Petiole 18-30 mm long; fully expanded lamina elliptic to obovate or broadly-elliptic, 117-182 mm long, 38-95 mm wide, 1.9-2.7 times longer than wide; (6-)8-10(-12) secondary veins on either side of midrib. Lamina apex shortly acuminate, or occasionally acute; base cuneate, not oblique or occasionally oblique by up to 3 mm. Lamina margins dentate, with teeth all about the same size, or varying in length (alternating long and short), 17-49 on each side of the lamina, the longer teeth 0.7-2 mm long. Upper surface of fully expanded lamina green, with persistent hairs, sparse to moderately dense, appressed, 0.5-0.7 mm long. Lower surface of lamina white or sometimes rusty-coloured (coppery-brown), hairs appressed; secondary veins brown, raised; tertiary veins brown, ± flush with indumentum.

Flowers

Inflorescences axillary, paniculate, 33-75 mm long, densely tomentose, primary axis 25-63 mm long, secondary branches 9-30 mm long, bracts narrowly-deltate, 2-6.3 mm long. Pedicels 1.3-2 mm long; flowering hypanthium cupular, 3.1-3.9 mm diameter. Flowers about 4-5 mm diam. Calyx lobes 1.5-1.9 mm long; petals 4-4.2 mm long, white, corolla appendages white, 1-1.4 mm long. Staminal filaments 1-1.6 mm long; anthers 0.8-0.9 mm long. Style 1.1-1.6 mm long; ovary 2-locular. Disk yellow to orange, margin crenate.

Fruit

Capsules with cupular to hemispherical hypanthium, 2.8-3.3 mm long, 3.8-5 mm diameter, teeth 4, slightly exerted. Seeds 0.5-0.6 mm long, numerous. Testa rugose with a hexagonal pattern. Embryo small, cotyledons and radicle straight.

Seedlings

Cotyledons orbicular, about 2-3 mm diam. First pair of true leaves +/- ovate, margin with a few coarse teeth. At the tenth leaf stage: leaf blade surface somewhat bullate and the margin strongly serrate. Lower surface of the leaf blade densely clothed in white prostrate hairs except for the pale brown hairs on the midrib and the main lateral veins. Terminal bud and stem densely clothed in pale brown prostrate hairs. Seed germination time 21 to 25 days.

Distribution and Ecology

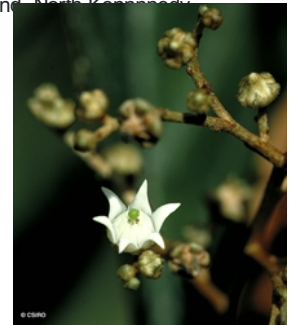
Endemic to NEQ, known only from collections made in the Koolmoon Creek, Tully Falls and Kirrama regions. Altitudinal range from 600-1080 m. Grows as an understory plant in rocky areas along creeks in gallery forest and rainforest.

Synonyms

Argophyllum sp. Koolmoon Creek (B.Gray 1040) [Provisional HISPID phrase name.]

RFK Code

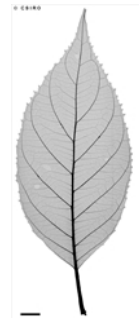
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Flowers. © CSIRO



Leaves and Flowers. © CSIRO



Scale bar 10mm. © CSIRO



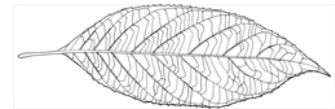
Cotyledon stage, epigeal germination. © CSIRO



10th leaf stage. © CSIRO



A. flowering branchlet x0.5. B. lamina margin x2. C. hair from upper leaf surface x40. © Queensland Government



Leaf venation x0.7. © Queensland Government

